

769.63 Existing Guard Rail.

Where the milling mulch is to be placed in locations of existing guard rail, the fabric shall be placed on both sides of the post, and shall be cut at the posts to allow the fabric to lay flat between the posts, and to overlap a minimum of 300 millimeters. The millings will then be placed and raked closely around the posts.

COMPENSATION**769.80 Method of Measurement.**

The quantity of pavement milling mulch shall be the number of meters based on actual measurements made along the guard rail.

769.81 Basis of Payment.

The work under this item shall be paid for at the contract unit price per meter complete in place, which price includes the geotextile fabric, pavement millings, and all related excavation, borrow, and grading.

769.82 Payment Items.

769.	Pavement Milling Mulch under Guard Rail	Meter
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SECTION 770**SODDING****DESCRIPTION****770.20 General.**

This work shall consist of the construction of lawn, field or collected natural growth sod as required, on the areas indicated on the plans, or as designated by the Engineer, and in accordance with these specifications.

MATERIALS**770.40 General.**

Materials shall meet the requirements specified in the following Subsections of Division III, Materials:

Loam Borrow	M1.05.0
Topsoil and Plantable Soil Borrow	M1.07.0
Sod	M6.05.0
Seed	M6.03.0

CONSTRUCTION METHODS**770.61 Laying Sod.**

A foundation for the lawn and field sod shall be constructed and it shall consist of loam borrow, plantable soil borrow or topsoil rehandled and spread in quantities sufficient to produce, after natural settlement has taken place and after tamping, a depth of at least 100 millimeters. Fresh sods shall then be placed in final position on the areas designated for sodding. Sods shall be placed in a solid, strip or spot pattern as designated on the plans or as directed. When the solid pattern is used the sods shall be laid edge to edge with staggered joints. All sods shall be very carefully handled, to prevent loosening and separation of the loam from the roots. The combined thickness of the sod and loam shall be at least

150 millimeters. The sod shall be settled by watering it and by tamping on a board laid over it.

When the sods are to be placed in temporary storage piles, and they are in the form of separate flat slabs instead of folds or rolls, they shall be placed in layers so that the grassy side of the first or bottom layer shall be uppermost, whereas in the next succeeding layer the roots shall be uppermost, and so on in such a manner as to place the grass or roots of each succeeding layer in immediate contact with the corresponding surface of the preceding layer, in order to avoid rapid growth of the grass while in storage. The piles shall be sprinkled with water and covered with burlap, straw or other acceptable material which shall be kept moist when required and as directed. As a rule, temporary storage will not be permitted for a period longer than

5 days. The sod shall not be stored in such a manner to compress the thickness of sod below the minimum required.

Collected natural growth sod as specified in Subsection M6.05.0 shall be placed in an excavation in the existing ground to the depth of the sod and shall be placed in either a staggered pattern or in strips as directed. If the staggered pattern is used, sods shall be placed not over 1 meter apart. If strips are used, they shall run approximately parallel with the roadway and not over 3 meters apart. Loam shall not be used in laying natural growth sod. Mulch shall be carefully replaced around sods placed in premulched areas.

Care shall be taken that the collected sods shall be firmly embedded in the natural soil. A hole shall be excavated in the slope beneath the mulch to the depth and width of the sod and the sod placed therein. Soil and mulch shall then be placed and compacted around the sod. In all cases, the mulch must be parted at each planting location prior to planting and then satisfactorily replaced immediately following the planting. Collected natural growth sod shall be placed within one day after arrival on the project. Sodds which have been stored beyond this time limit and sods which have become dried out or broken prior to placement in final position on the designated areas shall be rejected by the Engineer.

770.62 Fastening Sod to Slopes.

On slopes steeper than 1:3 (1 vertical to 3 horizontal), lawn and field sod shall be held securely in place by fastening alternate lines of sod with wooden pegs. The pegs shall be not less than 300 millimeters in length, and they shall be spaced 1 meter apart and driven flush with the surface of the sod. Other approved methods of fastening sod to slopes may be used where pegging is not practicable.

770.63 Surface Dressing of Lawn and Field Sodding.

When the sod has been set in final position, loam shall be used to fill the joints and as a surface dressing to cover the sodded areas to a depth of about 6 millimeters. A grass seed mixture conforming to the specifications stated in Subsection M6.03.0 for Slopes and Shoulders shall be mixed with clean, dry sand or dry sandy loam and sown upon the loam surface dressing at the rate of 0.25 kilograms per 100 square meters. The sodded areas shall then be compacted, and the compaction shall be equivalent to that produced by hand roller with a mass of between 110 and 150 kilograms per meter of width and to produce a smooth, uniform surface.

Natural growth sod should be pruned after planting. All woody plants such as sweet fern, sheep laurel and blueberry shall be pruned 50% of their top growth.

770.64 Maintenance and Care.

The Contractor shall be responsible for any necessary watering of sodded areas.

If necessary, suitable signs and barricades of brush or other material shall be placed to protect the sodded areas.

Before acceptance of the work, a satisfactory uniform stand of grass will be required. (See Subsection 765.66.)

The Contractor shall maintain all of the sodded areas until the work has been officially accepted, without compensation in addition to the amount regularly to be paid under this item, as hereinafter provided. Maintenance shall include all reseeding or resodding which may be necessary, as determined by the Engineer.

COMPENSATION**770.80 Method of Measurement.**

The quantity of lawn and field sodding shall be the number of square meters based on actual measurements made over the general contour of the areas sodded, complete in place and accepted. The quantity of collected natural growth sods each conforming to M6.05.0 in a healthy condition, shall be the actual number of such sods at the time of acceptance of the project.

770.81 Basis of Payment.

The work involved in lawn or field sodding will be paid for at the contract unit prices per square meter, complete in place, under the respective items for Lawn Sodding or for Field Sodding, which prices shall include loam for filler and top dressing and seed, except loam used for foundation of sod which will be paid for as Loam Borrow, Plantable Soil Borrow or Topsoil Rehandled and Spread.

Collected natural growth sods will be paid for at the contract unit price, each, complete in place, under the item for Collected Natural Growth Sod.

770.82 Payment Items.

770.	Lawn Sodding	Square Meter
770.1	Field Sodding	Square Meter
770.2	Natural Growth Sod – Lowbush Blueberry	Each
770.3	Natural Growth Sod – Bearberry	Each
770.4	Natural Growth Sod – Mountain Laurel	Each
770.5	Natural Growth Sod – Sweet Fern	Each
751.	Loam Borrow	Cubic Meter
751.2	Plantable Soil Borrow	Cubic Meter
752.	Topsoil Rehandled and Spread	Cubic Meter

SECTION 771**PLANTING TREES, SHRUBS AND GROUNDCOVER****DESCRIPTION****771.20 General.**

This work shall consist of furnishing, transplanting, planting and/or transplanting trees, shrubs, vines, ground cover and seedlings of varieties and sizes specified in locations as shown on the plans and/or as directed by the Engineer.

The work shall include excavation of pits, placing of backfill mixture, mulching, watering, staking or guying, wrapping, liming, fertilizing, seeding, care of the plants and replacement of unsatisfactory plants and materials during the life of the contract.

MATERIALS**771.40 General.**

Materials shall meet the requirements specified in the following Subsections of Division III, Materials with the amendments and supplements contained herein:

Loam Borrow	M1.05.0
Peat Borrow	M1.06.0
Topsoil and Plantable Soil Borrow	M1.07.0